Benoît JEAUROND

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@BenJeau (7)

CGPA: **9.53/10**

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Software Engineer with an interest in Al, mobile, and low-level technologies



EDUCATION

Bachelor of Applied Science, Software Engineering | University of Ottawa

2017 - 2022

Earned the Chancellor's Scholarship, Dean's Excellence, and Award Nortel Founding Scholarship for the SITE **CAPSTONE PROJECT**

Developed a machine learning based Ransomware detection Python service using PySpark Random Forests, receiving SYSMON logs from Kafka, and monitoring with a mix of Grafana, Kibana, and Jaeger

ENGINEERING TEAMS

Member of uOttawa's Robobat Team for 3 years, was the team and software lead leading meetings, organizing tasks, following up with members, and working on my assigned tasks. Also, worked on image detection of buoys using ROS, OpenCV, and Tensorflow in Python.

Member of <u>uOttawa's Mars Rover Team</u>, worked on organizing the software team using my background from Roboboat, created React dashboard to monitor and control the rover using ROSLib.js, and integrated IMU in the map generation

HACKATHONS

Organized and volunteered at the CANDEV data challenge for Statistics Canada

Attended two uOttaHack Hackathons, creating a mobile game with OpenGL and mobile hospital kiosk applications using Firebase



EXPERIENCE

Software Developer | Cision Canada

SUMMER 2021

Developed Java features and fixed Java/Groovy bugs related to news article and social media ingestion

Added features to internal Apache Kafka tools, such as an interactive UI and SSL support

Defined and created a process to deploy application streams to QA and production Spring Cloud Dataflow (SCDF)

 Automated SDCF stream updates, application registration and deployment, as well as Docker image management in AWS Elastic Container Registry from Atlassian Bamboo

Software Developer | Innovation, Science and Economic Development Canada **SUMMER & FALL 2020**

 Developed features for a work social media platform in JavaScript using React with an express.js backend Implemented Jest testing, SwaggerUI documentation, and multilingual database structure for the backend

Improved stability and performance of the overall application by cleaning up the whole codebase

Created Github Actions and Openshift/Kubernetes templates for server deployments alongside Jenkins integration

Software Developer | Ario Platform

FALL 2019

Developed features for the platform in Ruby on Rails and Angular using Test Driven Development

Improved performance and security of file downloads and uploads of the platform

Worked on a encrypted file transfer and database attributes in Ruby and Ruby on Rails respectively

Created background jobs to make asynchronous processes, that were previously synchronous

	WINTER 2019
	 Developed a React Native application to ease the time management for students Integrated Google Calendar as our calendar/events database and used it to compare schedules Added Firebase to send notifications between users and to collect information about the users Created and implemented the design for the application in Adobe XD Integrated the CI/CD for our application with CircleCI (building, testing, linting, and deployment)
þ	Junior Officer for Community Enablement Treasury Board of Canada Secretariat SUMMER 2018
	 Extracted data from online databases with JavaScript injections and Python automation Created Excel spreadsheets from injections' data (JSON databases) with Python Created executive profiles from the Excel database with VBA macros Linked the NOC 2016 codes with the O*NET-SOC 2010 codes with VBA in Excel
\\ \frac{1}{4}	PROJECTS
	DRAW AWAY
•	 Built a real-time drawing game, similar to Jackbox, with a Rust backend, a React Native and React frontend Created two open source NPM packages, an inspection tool to debug front-end state management Recoil.js library and a data-driven SVG based React Native drawing component
	 Deployed using horizontally scalable backend microservices on Kubernetes in DigitalOcean REACT NATIVE VISUAL SCRIPTING
	 Developed a fast Rust based React Native project creator, converting data to functioning React Native mobile application (including React components and React Navigation screens and navigators) NETCHEK
	 Programmed a network monitoring system using a Raspberry Pi and a GraphQL server deployed in a DigitalOcean droplet interfacing a React Native client with Apollo managing GraphQL calls and redux for the state JAVA FX
	Developed multiple JavaFX games , such as Tetris, Sudoku, Poker, TicTacToe, and Snake PORTFOLIO
(Created a personal website in React which populates its content from the GitHub API with Gatsby.js

References available upon request